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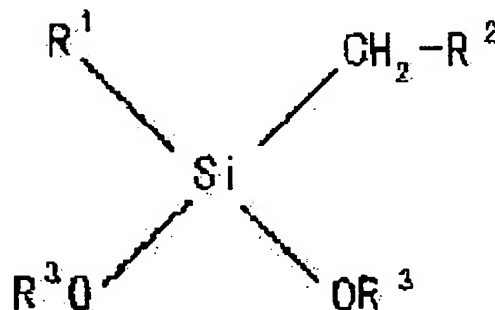
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(54) POLYMERIZATION CATALYST FOR OLEFIN, METHOD FOR PRODUCING OLEFIN POLYMER
AND OLEFIN POLYMER

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a new polymerization catalyst for an olefin capable of providing an olefin polymer having high melt fluidity by little hydrogen.

SOLUTION: This polymerization catalyst for the olefin is composed of (A) a preparatory polymerization catalyst ingredient prepared by bringing olefins into contact in the presence of (a) a solid catalyst ingredient obtained by bringing titanium tetrachloride and a magnesium compound into contact with a dialkyl phthalate, (b) an organometallic compound and (c) an organosilicon compound represented by general formula (1) (R1 denotes a 3-12C alicyclic hydrocarbon; R2 denotes a 3-20C branched hydrocarbon; and R3 denote a 1-20C hydrocarbon), (B) the organometallic compound and (C) an organosilicon compound which has Si-O-C bond and different from the compound (c).



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